

Active Recombinant Human TNF

Cat. No. TNF-1452H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human TNF- α produced in E.coli is a single, non-glycosylated, polypeptide chain containing 157 amino acids, two pairs of disulfide bonds and having a molecular mass of approximately 17.4kDa.
Species	Human
Source	E.coli
ProteinLength	157 a.a.
Description	Human TNF- α is a 17.4kD factor produced by macrophages, monocytes, neutrophils, CD4+ T cells and NK cells. A 26kD form of TNF- α is expressed as a membrane bound molecule. TNF- α is cytolytic and plays an important role in immune regulation. Dimers and trimers of TNF- α have been observed.
Form	Lyophilized from a 0.2 μ m filtered solution in 40mM Tris-HCl, 40mM NaCl, containing 0.1% human serum albumin, pH8.0.
Bio-activity	Specific Activity shall be not less than 2 x10 ⁷ IU/mg.
Endotoxin	$\leq$ 1EU/ μ g, determined by the LAL method.
Purity	$\geq$ 95%, as determined by SDS-PAGE and HPLC method.
Usage	FOR RESEARCH ONLY

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Storage Lyophilized samples are stable for greater than six months from date of receipt at -20 centigrade to -70 centigrade. The reconstituted samples can be stored under sterile conditions at 2-8 centigrade for one month or at -20 centigrade to -70 centigrade for three months without detectable loss of activity. Avoid repeated freeze-thaw cycles.

Reconstitution It is recommended to reconstitute the lyophilized rHuTNF- α in sterile ddH₂O not less than 100 μ g/ml, containing at least 0.1% human serum albumin or bovine serum albumin be added to the vial to prepare a stock solution.

GENE INFORMATION

Gene Name TNF tumor necrosis factor [Homo sapiens]

Official Symbol TNF

Synonyms DIF; TNFA; TNFSF2; TNF-alpha; tumor necrosis factor; APC1 protein; TNF, macrophage-derived; TNF, monocyte-derived; TNF-a; cachectin; tumor necrosis factor ligand superfamily member 2; tumor necrosis factor-alpha

Gene ID 7124

mRNA Refseq NM_000594

Protein Refseq NP_000585

MIM 191160

UniProt ID P01375

Chromosome Location 6p21.3

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Pathway	Adipocytokine signaling pathway, organism-specific biosystem; African trypanosomiasis, organism-specific biosystem; Alzheimers Disease, organism-specific biosystem
Function	cytokine activity; identical protein binding; protease binding

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